

solutions to integrable equations and has discovered that stationary solutions of the NLS are spectrally stable. His work will help in many areas of math and science, including but not limited to the study of Bose-Einstein condensates and plasma physics.

A young woman from Davis, CA, Alexandra Courtis, has developed an innovative method used in areas such as cancer research to track different biological functions via luminescent silicon nanorods and quantum dots. At just 17, she has developed a less expensive method of using sodium silicide and ammonium bromide that has made it possible to produce silicon nanoparticles on a larger scale. Alexandra's accomplishment is a significant advancement in targeting cancerous tumors and individual cells.

Billy Dorminy, a 15-year-old from McDonough, GA, has invented a secure method of message encryption using reduced redundancy representations of improper fractional bases. This new method of encryption takes up far less computer memory while also utilizing confusion and diffusion to keep a message hidden. Billy's method allows for the placement of a second undetectable encrypted message in the body of the first, opening the door for further advancement in the area of message encryption.

Another 15-year-old, Yale Fan, from Beaverton, OR, has furthered the binary quantum computational Deutsch-Jozsa and Grover algorithms to create multivalued logic problems. These two algorithms were among the first in the creation of a quantum computer. His work is relevant in many areas including the vision systems in computers, various economic issues, and aspects related to space, including transportation, scheduling, and manufacturing.

Madhavi Gavini, a 17-year-old from Starkville, MS, has developed an innovative method to restrict the augmentation of biofilm-forming pathogens. For example, *Pseudomonas*, a pathogen that is resistant to many drugs, produces a biofilm that protects it from antibiotics. This young woman's progress was done through the combination of traditional Indian medicine and molecular biology that will be used to treat millions dealing with *Pseudomonas* infections.

A 17-year-old from Bridgewater, NJ, Michael Harwick wrote a piece entitled "Highways: The Road as Existence" that utilized prose, poetry, and dialogue to depict relationships that oscillate between isolation and connection. Michael consistently astounds the reader with a unique voice filled with streams of symbolic and linguistic meaning. Through his choice of short dialog and extravagant descriptions of a visual world, he has shown the lack of dialog in a world filled with noise.

Todd Kramer, a 17-year-old from Port Jefferson, NY, produced a portfolio that followed his growth as a composer since he was 12 entitled "Finding My Voice Through Music." He believes

that each generation needs its musicians, composers, and performers that create artistic conventions that grow and mature with the times. This young man just graduated from the Juilliard Pre-College Division and is a student at the Perlman Music Program. He has performed in such prestigious places as Carnegie Hall in New York and the Kennedy Center right here in Washington, DC.

Fifteen-year-old Shannon Lee of Plano, TX, is another very talented musician who believes that music is a cornerstone of communication, which she has shown through her violin portfolio, "Creating a Musical Bond." Shannon specifically enjoys keeping tradition alive by playing a variety of distinguished composers to captivate her audiences. She earned the silver medal at the Stulberg International String Competition, and she received a scholarship from the Texas Commission on the Arts, where she also performed as a soloist in the Dallas Symphony.

Danielle Lent, a 17-year-old from Cedarhurst, NY, has developed an innovative, cost-effective, and earth-friendly method of recycling plastics. Her process involves the exposure of plastic polymers to supercritical carbon dioxide, creating a plastic that has equal or superior properties in comparison to the original. Miss Lent's discovery has allowed for this entire process to occur without releasing harmful toxins while also reducing carbon dioxide emissions.

A seventeen-year-old young woman from Wesley Chapel, FL, Celeste Lipkes, has transfixed her readers by exploring themes of disease, discovery, and faith in, "Room to Pace." Her portfolio includes the juxtaposition of poetry that is amusing, intense, uplifting, and downright enjoyable with personal essays on physical loss and the oddities of the human family, and finally critical essays analyzing other poetry. Through her work, Celeste wants to inspire her audience to take notice of the details of life.

Yuqing Meng, a 16-year-old from Madison, NJ, feels privileged to contribute to the art of classical music, which he has shown through his piano portfolio, "Reviving Classical Music Through Individualism." When he was just 7 years old, Yuqing was one of the youngest candidates ever to be accepted to the Juilliard School Pre-College Division, where he later went on to win the Junior and Senior Concerto Competitions. In 2007, he also received the Jack Kent Cooke Young Artist award.

Katherine Orazem, a 17-year-old from Ames, in my home State of Iowa, has written a collection of sonnets, short stories, and essays entitled "After Elegies" that delves into the human issue of death and examines those who have gone through loss. She looks at these issues from many perspectives, including the loss a widow must face, the denial of his wife's death by a husband, and the pain an apostate feels who has lost her faith. Through her work, we

have come to understand the human condition and its variety of responses to death and loss.

A 15-year-old from Norristown, PA, Janet Song has created a urine test to detect the early signs of cancer. She has been able to isolate short circulatory DNA found in urine to identify tumor sites. Janet's new method has made cancer screening less unpleasant, less invasive, and cheaper than current methods.

Columbia, SC, native Graham Van Schaik has researched pyrethroids that are found in common household and garden pesticides. He even discovered that pyrethroids are used in over 30 commercial crops and have had the effect of cellular proliferation in breast cells, a sign of cancer and neurite retractions in neurons which is a sign of neurodegenerative disease.

Nora Xu, a 17-year-old from Naperville, IL, has developed a different method of determining the crystal structure of nanocrystalline superlattice thin films. Using a three dimensional model of the nanocrystalline superlattice, she found that x-ray scattering pattern intensities can be applied to molecules and atoms. Her work has potential in the area of optical and electron microscopes and the ability to deliver drugs to cancerous tumors.

Mr. President, these are 17 very talented, hard-working, motivated young men and women who are making advances in music, science, literature, mathematics, and technology for the betterment of society. I would like to thank all these young people for their willingness to seek out new horizons and make the world a better place. I would also like to personally thank the Davidson Institute for their support of these young individuals. In an ever-changing world, it is the young who show hope for the future. I can honestly say, after learning about every one of these kids, that I have great hope for the future.●

#### THE DEATH OF DR. ALVIN SMITH

● Mr. HARKIN. Mr. President, I ask to have printed in the RECORD an article on the death of Dr. Alvin Smith, who passed away last week at the age of 75. The son of sharecroppers, he went on to become a noted physician who worked throughout his life to increase access to the health care system, an issue that is near and dear to my heart. My condolences go out to his wife Ann, his three son, and his six grandchildren.

The article follows.

[From [newsjournalonline.com](http://newsjournalonline.com), Sept. 19, 2007]  
NOTED AREA PHYSICIAN DIES WITH FAMILY AT SIDE

(By Anne Geggis)

Dr. Alvin Smith devoted his life to saving the lives of his patients and curing the ills of the health-care system.

Smith, 75, died Tuesday morning at his Ormond Beach home. His family was at his side.

The son of Alabama sharecroppers overcame meager beginnings to become one of the most respected physicians in the area.

The 1952 Mainland High School graduate was perhaps best known to the community as the director of the Herbert D. Kerman Regional Oncology Center at Halifax Health Medical Center and as the owner of Angell & Phelps Chocolate Factory that his son, Alvin Jr., now runs.

In addition, he felt a strong pull toward changing the system so more people had access to medical care, serving as president of the Volusia County Medical Society and the Florida Medical Association.

Smith was a self-confessed truant who went to fifth grade for only one day and didn't come back to school for a year. He quit high school in 10th grade and finally graduated from Mainland at the age of 21. But then he went on to become the first college graduate in his family, earning a biology degree from the University of Florida before getting his doctorate from the University of Miami.

It was as president of the Florida Medical Association in the 1990s, however, that Smith achieved one of his most enduring accomplishments: convincing then-Gov. Lawton Chiles to form an autonomous state Department of Health. During that time, he also lobbied for legislation allowing the state of Florida to sue the tobacco industry to recover Medicaid costs.

"He wanted to make sure that no patient in Florida went without the best health care they needed, regardless of their ability to pay," said Dr. Carl "Rick" Lentz, also a past president of the Florida Medical Association and a Daytona Beach surgeon.

His voice choking, Lentz recalled how Smith recently handed him his Florida Medical Association president's pin because Lentz never got one during his term as president.

"He's a wonderful human being who's been a blessing to the whole world," Lentz said. "There's not a patient who has been with him that doesn't love him. Anytime you call on Al, he's there for you."

Former County Councilman, local talk show radio host and gadfly Big John recalled meeting Smith as an "intern" at Halifax Health Medical Center in which community members were invited to spend time with doctors to learn about the hospital's functions.

"He was a great guy—great personality," John said.

Smith's boyhood longing for chocolates he couldn't afford in the window at Angell & Phelps gave way to occasional indulgence. When the chocolate factory came up for sale, he bought it to make sure all his favorite recipes stayed the same.

Daytona Beach Mayor Glenn Ritchey served with him on the Halifax Community Health System Board.

"I have known him to be a great community servant, as well as a wonderful doctor who has meant so much to our area," Ritchey said. "He'll be greatly missed."

Smith served in the U.S. Army, retiring as a major, and from the U.S. Army Reserves as a lieutenant colonel. He was active in civic organizations, ranging from the Boy Scouts to the People to Prevent Nuclear War. He served on boards including the United Way, Hospice of Volusia/Flagler and A Child's Place.

"Alvin's one of the really good guys," said John E. Evans, a former TV personality and spokesman for what was then called Halifax Community Health System.

Survivors include his wife of 50 years, Ann; three sons, Alvin Jr., Ormond Beach, and Chuck and Mike, both of Palm Coast; a sister, Ginny Little, Ormond Beach; and six grandchildren.

Viewing will be from 5 to 7 p.m., Friday at the social hall at Central Baptist Church, 142

Fairview Ave., Daytona Beach. Services will be at 11 a.m. Saturday at Central Baptist Church. A private military burial will be next week.●

#### MESSAGE FROM THE HOUSE

At 2:22 p.m., a message from the House of Representatives, delivered by Ms. Niland, one of its reading clerks, announced that the House has passed the following bill, in which it requests the concurrence of the Senate:

H.R. 2881. An act to amend title 49, United States Code, to authorize appropriations for the Federal Aviation Administration for fiscal years 2008 through 2011, to improve aviation safety and capacity, to provide stable funding for the national aviation system, and for other purposes.

#### ENROLLED BILL SIGNED

The message also announced that the Speaker has signed the following enrolled bill:

H.R. 3528. An act to provide authority to the Peace Corps to provide separation pay for host country resident personal services contractors of the Peace Corps.

The enrolled bill was subsequently signed by the President pro tempore (Mr. BYRD).

#### MEASURES PLACED ON THE CALENDAR

The following bill was read the first and second times by unanimous consent, and placed on the calendar:

H.R. 2881. An act to amend title 49, United States Code, to authorize appropriations for the Federal Aviation Administration for fiscal years 2008 through 2011, to improve aviation safety and capacity, to provide stable funding for the national aviation system, and for other purposes.

#### REPORTS OF COMMITTEES

The following reports of committees were submitted:

By Mr. BAUCUS, from the Committee on Finance, without amendment:

H.J. Res. 43. A joint resolution increasing the statutory limit on the public debt (Rept. No. 110-184).

#### EXECUTIVE REPORT OF COMMITTEE

The following executive report of a nomination was submitted:

By Mr. ROCKEFELLER for the Select Committee on Intelligence, Donald M. Kerr, of Virginia, to be Principal Deputy Director of National Intelligence.

(Nominations without an asterisk were reported with the recommendation that they be confirmed.)

#### INTRODUCTION OF BILLS AND JOINT RESOLUTIONS

The following bills and joint resolutions were introduced, read the first and second times by unanimous consent, and referred as indicated:

By Mr. LOTT:

S. 2086. A bill to amend title XXI of the Social Security Act to extend funding for 18

months for the State Children's Health Insurance Program (SCHIP) and for other purposes; to the Committee on Finance.

#### SUBMISSION OF CONCURRENT AND SENATE RESOLUTIONS

The following concurrent resolutions and Senate resolutions were read, and referred (or acted upon), as indicated:

By Mr. CORNYN (for himself, Mrs. FEINSTEIN, and Mr. KYL):

S. Res. 326. A resolution supporting the goals and ideals of a National Day of Remembrance for Murder Victims; to the Committee on the Judiciary.

By Mrs. DOLE (for herself and Mr. KENNEDY):

S. Res. 327. A resolution recognizing the 218th anniversary of the United States Marshals Service; to the Committee on the Judiciary.

By Mr. REID (for Mr. BIDEN (for himself, Mr. LUGAR, and Mr. SUNUNU)):

S. Res. 328. A resolution condemning the assassination on September 19, 2007, of Antoine Ghanem, a member of the Parliament of Lebanon who opposed Syrian interference in Lebanon; considered and agreed to.

By Mr. DURBIN (for himself and Mr. OBAMA):

S. Res. 329. A resolution congratulating Southern Illinois University Edwardsville as it celebrates its 50th anniversary; considered and agreed to.

#### ADDITIONAL COSPONSORS

S. 22

At the request of Mr. WEBB, the name of the Senator from Maine (Ms. COLLINS) was added as a cosponsor of S. 22, a bill to amend title 38, United States Code, to establish a program of educational assistance for members of the Armed Forces who serve in the Armed Forces after September 11, 2001, and for other purposes.

S. 502

At the request of Mr. CRAPO, the name of the Senator from Tennessee (Mr. ALEXANDER) was added as a cosponsor of S. 502, a bill to repeal the sunset on the reduction of capital gains rates for individuals and on the taxation of dividends of individuals at capital gains rates.

S. 507

At the request of Mr. CONRAD, the name of the Senator from Iowa (Mr. HARKIN) was added as a cosponsor of S. 507, a bill to amend title XVIII of the Social Security Act to provide for reimbursement of certified midwife services and to provide for more equitable reimbursement rates for certified nurse-midwife services.

S. 597

At the request of Mrs. FEINSTEIN, the name of the Senator from Florida (Mr. NELSON) was added as a cosponsor of S. 597, a bill to extend the special postage stamp for breast cancer research for 2 years.

S. 773

At the request of Mr. WARNER, the name of the Senator from Connecticut (Mr. LIEBERMAN) was added as a cosponsor of S. 773, a bill to amend the